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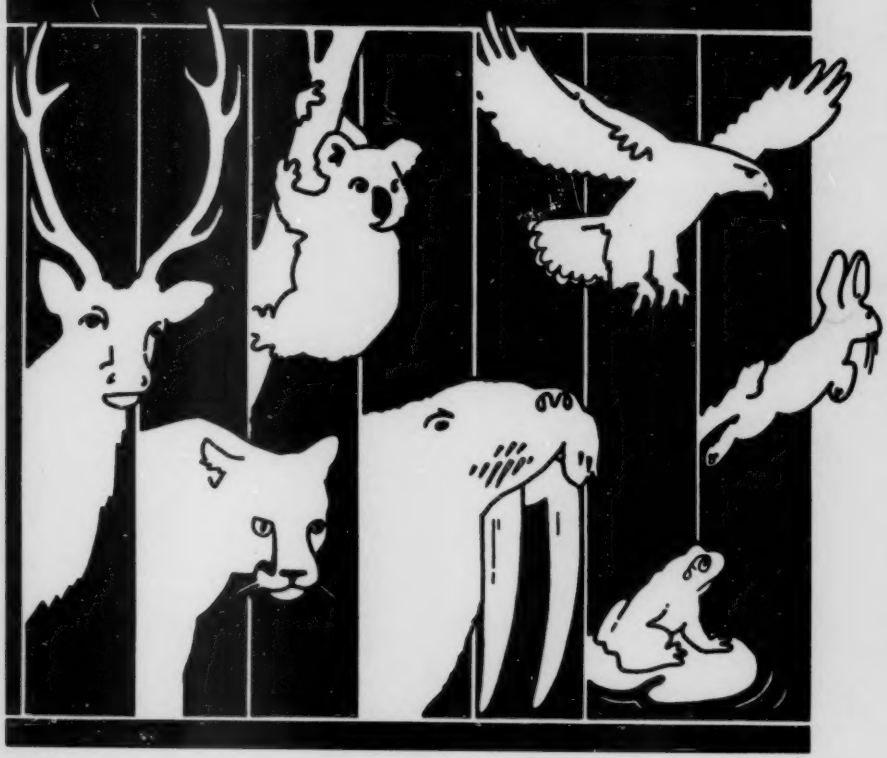

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BOOK REVIEW

Ralph W. Tiner. 1987. *A Field Guide to Coastal Wetland Plants of the Northeastern United States.* The University of Massachusetts Press, Amherst, MA 01003. 286 pp., 12 black and white photographs and numerous line drawings,2-color maps. Available from the publisher at $12.95 (paper) and $25.00 (cloth).

This volume is a useful and much-needed guide to the identification of common coastal wetland plants of the Northeast (Maine through Maryland)--although most of the species included are also found in more southern marshes as well-- and an introduction to coastal wetland ecology. The text is written for the "nontechnical" person and will be of use to amateur naturalists and anyone desiring an introduction to the flora of the coastal systems. However, students, state and federal biologists, environmental consultants, interpretative specialists, and land use planners will also find the volume useful since almost all common species in the geographic area of concern are included.

The text is comprised of 5 major sections: a brief introduction to coastal wetland ecology; a discussion of means to identify plants and use the artificial keys of the volume; description and illustration of 157 wetland species or groups of species; a guide to easily accessible coastal wetlands in 10 states; and a list of additional readings, references, a glossary, and an index. The wetlands addressed include three of the six commonly recognized types of tidal wetlands (coastal aquatic beds, salt and brackish mashes, and tidal fresh marches). Rocky shores, tidal flats, and tidal swamps are only addressed through general discussion.

The drawings by Abigail Rorer adequately represent "typical" specimens, but by no means include all of the variation found in some of these species. Thus, novices who attempt to use the illustrations as "keys" to specimens in hand will meet with the normal difficulties associated with this approach. Similarly, any one or several of the many species in some genera are presented. Novices may therefore "force" identification to match the illustrated species in lack of broader knowledge of the genera in question. For these reasons, this text, similar to almost all floral guides, is most useful when truly used as intended, that is, as a "key" to identification instead of a "field guide" per se.

In sum, the book is perhaps a little too complicated for the layman expecting a simple guide, and perhaps not complicated enough for the serious botanist. Nonetheless, it is the only text of its kind and the coverage for all but the most serious botanist will be entirely satisfactory. The text is therefore recommended for all coastal enthusiasts and will be an excellent guide for visits to any coastal site in the area of coverage.-- Ronald E. Kirby, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

Aarnio, Martti
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Aaviksoo, K. D.
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Abbott, D. H.
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Abiira, Dorothy Ssek
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BOOK REVIEW

Campbell, J. A. and W. W. Lamar. 1989. *The Venomous Reptiles of Latin America.* Cornell University Press, P.O. Box 250, Ithaca, NY 14851. 425 pp. Available from the publisher at $59.50 (cloth).

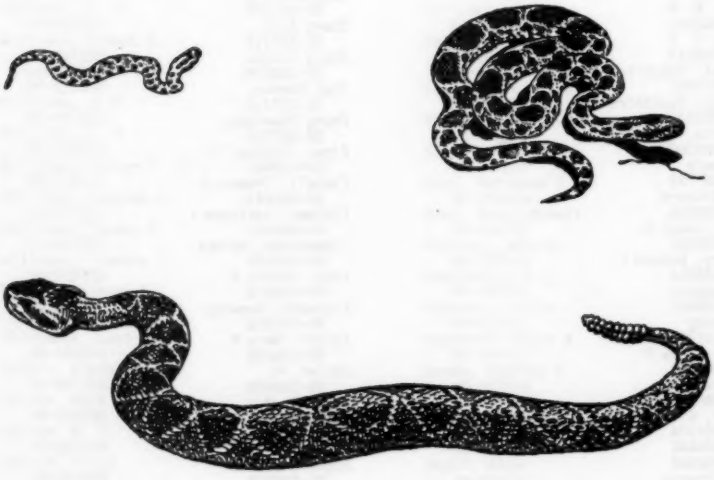
The goals of this book are to "1) facilitate the identification of various reptile species of the region that are potentially dangerous, 2) describe these species and to delimit their distributions, 3) provide a broad overview of the various kinds of natural habitats found in countries south of the United States, and 4) present information relevant to the treatment of human envenomation." The first two goals were met, however, the final two were treated quite superficially.

The regional accounts and keys to venomous snakes provides the reader with general, yet useful information regarding the physiographic conditions of Latin America. Additionally, a comprehensive summary of venomous species that are associated with each physiographic region and an identification key are presented.

The sections containing species accounts, presents useful information about each species, including local names, English names, habitat preferences, description, similar species, remarks, and references. Also included is a distribution map for each species.

Numerous color plates are provided with high quality photographs of each species.

Overall, anyone involved in conducting wildlife research in South America would find this book of value. However, I would not recommend it for lay persons as a key to identification of venomous reptiles since it would frequently require a "snake in hand" for positive identification. Many of these snakes have extremely toxic venoms and we should not encourage collection by amateurs.--R. Charles Solomon, U.S. Fish and Wildlife Service, National Ecology Research Center, 4512 McMurray Ave., Fort Collins, CO 80525.



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BOOK REVIEW

Coffin, B. and L. Pfannmuller. 1988. *Minnesota's Endangered Flora and Fauna.* University of Minnesota Press, 2037 University Avenue Southeast, Minneapolis, MN 55414. xv + 473 pp. Available from the publisher at $49.50 (cloth) and $16.95 (paper).

This is one of the finest of a growing number of publications that describe the endangered, threatened, rare, and special concern species of particular states. Some, such as the one that covers Pennsylvania (Genoways, H.H. and F.J. Brenner, ed. 1985. *Carnegie Museum of Natural History*, Special Publications No. 11) species, are beautiful hardbound typeset publications that present complete species accounts with appropriate illustrations of the species; while several others are less elegant. Often, in the past these publications were listings of species that academicians and conservationists in the state under consideration thought might be good candidates for protection, but were species that did not actually receive legal protection under the state's laws.

On several counts, this book is one of the best of its kind that I have seen. The book is well produced and edited; it contains complete species accounts most of which are accompanied by excellent drawings; and, wonder of wonders, most species are actually legally protected or proposed for legal protection under Minnesota law.

Although the version I reviewed is a paperback version, a hardbound version is available, and a section of 8 pages of color illustrations of species and typical Minnesota habitats is an added elegant touch.--Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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BOOK REVIEW

Sparks, John and Tony Soper. 1989. *Owls: Their Natural and Unnatural History.* Facts on File, Inc., 460 Park Avenue, New York, NY 10016. 240 pp. Available from the publisher at $22.95 (cloth).

This is an up-date of the 1970 edition (which sold for $6.95, cloth). It includes most of the same contents practically word for word but with additions. The dedication is different but the "Contents" are essentially the same with some 30 more pages of new material. Although intended for the "keen naturalist and the general reader" every owl enthusiast will want a copy (even with the 19-year price inflation). The latest version contains more colored plates--all of which are outstanding. Robert Fillmore's black and white sketches have been reduced in size but not number. Some are actually better, blacker and bolder in my copy. Twelve new black and white photos have been added. The writing is most readable, enjoyable, and quite accurate. In general it maintains the high quality, size and format of their *Penguins* which was revised by Facts on File in 1987.--Ronald A. Ryder, Dept. of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

BOOK REVIEW

Ford, Hugh A. 1989. *Ecology of Birds: An Australian Perspective.* Surrey Beatty & Sons Pty Limited, 43 Richard Rd., Chipping Norton, NSW 2170, Australia. 288 pp. Available from the publisher at $36.90 (cloth).

Part of a series on Australian ecology, this book reminds me somewhat of *Learning About Australian Birds* by Rosemary Balmford (1980). *Ecology of Birds*, however, is less "popular," being intended for university students, teachers, and "the interested public who require a basic factual knowledge to broaden their understanding of ecology." Ford's book is also intended "for those conservationists, agriculturists, foresters, wildlife officers, politicians, engineers, etc., who may need to apply ecological principles in solving specific environmental problems."

In addition to the expected chapters on the Australian environment, the origin of birds, and their distribution, more detailed coverages are given on foods and foraging behavior, community ecology, and breeding strategies. Migration, as it applies to Australia, and endangered species are covered somewhat more briefly as is habitat destruction. The last chapter is a synthesis of all the earlier chapters and discusses priorities for future research. North Americans will find the numerous comparisons to Northern Hemisphere birds enlightening and useful, particularly if one is fortunate enough to visit Australia and see first-hand some of the excellent research highlighted in this valuable contribution.--Ronald A. Ryder, Dept. of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

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BOOK REVIEW

Wiens, John A. 1990. *The Ecology of Bird Communities.* Cambridge University Press, 40 West 20th Street, New York, NY 10011. Two volume set: Volume 1, *Foundations and patterns*, 539 pp., $80.00; Volume 2, *Process and variations*, 316 pp., $65.50. Both volumes are cloth.

John Wiens has been questioning the operational definitions, paradigms, approaches, and conclusions of community ornithologists for two decades. This text is a scholarly synthesis of those 20 years.

The text is divided into five parts of 14 total chapters presented in two volumes. The respective parts cover the foundation of avian community ecology, patterns within avian communities, interpretation of those patterns, temporal and spatial dynamics, and future directions of the science. The text incorporates information from will over 2,000 references–and Wiens challenges those authors and their students to rethink the earlier works, to be more creative in their approaches, and to devote greater attention to narrowing hypotheses and interpreting statistical data. Wiens impresses us with the inherent difficulty of studying avian communities and leaves the reader thoroughly aware of the multiplicity of assumptions that demand consideration in the design and interpretation of field investigations. He is especially critical of those who interpret their works as a definitive product of evolution rather than as a momentary, local assemblage of species in an ecologically dynamic world. To this end, Volume 1 especially seems a collection of all the assumption "knowns" one has ever heard followed by the reminder that only well designed, long-term, highly replicated studies tell us much about interspecific associations of birds. This point is slammed home in Volume 2 where Wiens convinces the reader that selective forces act on individuals and populations; assemblages are mere products of many different selective forces acting through time and space on the member species populations. While simultaneously encouraging more experimental work, Wiens is quick to point out that experiments can create a false sense of confidence and that the quality of an experiment is a function of the insight, creativity, and forethought in its design.

These volumes are a critical synthesis of our meager understanding and overwhelming lack of understanding of avian community ecology. More importantly, however, they provide a template for future inquiry into the science of community ecology. I venture this will be the singly most-cited reference in the ecological and ornithological literature through the end of this century.

The somewhat weighty $145.50 price assures these volumes will be seen predominantly in the libraries of serious ornithologists and community ecologists–the intended audience.–Fritz L. Knopf, National Ecology Research Center, 4512 McMurray Ave., Fort Collins, CO 80525-3400.

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BOOK REVIEW

Doughty, Robin W. 1989. *Return of the Whooping Crane.* University of Texas Press, Box 7819, Austin, TX 78713-7819. 182 pp. Available from the publisher at $24.95 (cloth).

My first impression of this book was "Here is another large format (8.25 x 11.75 inches), slick paper, beautiful work in time for the Christmas birdbook market." However, it was not really published until late January 1990. It is very attractive with the printing in Japan probably accounting for the excellent renditions of the 32 beautiful color photographs. The author reviews previously published books and articles, plus journal accounts. He primarily documents the efforts of many researchers and managers. The acknowledgments read like a who's who of about everyone who has worked with whoopers. A professor of geography, Doughty deviates in his writing (particularly citations of reference sources) from that in most biological journals and typical scientific monographs, but he and the editors are trying to "appeal to a wide audience from ornithologists to the most casual of bird watchers." Doughty has done considerable research on his own, visiting refuges and research stations. He has interviewed many people regarding past, present, and proposed efforts to "save" this unique bird. In places the investigative reporting (who, what, where, when, etc.) is almost overwhelming. The "pure" researcher will probably prefer to go to the many symposia proceedings, in-house reports, and technical papers listed in the bibliography for more details, nevertheless the book is extremely valuable for even the professional crane biologist for drawing together so much scattered information and providing a thorough, timely summary of the biopolitics and strong personalities involved.--Ronald A Ryder, Dept. of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

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